

Message Text

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SUBJECT: TRI-SERVICE GROUP OF EXPERTS ON ELECTRICAL POWER (AC/294)

REF: A) USNATO 4605 DTG 231535Z AUG 76; B) STATE 225155 DTG

110216Z SEP 76; C) USNATO 5986 DTG 031815Z NOV 76;

D) USNATO 6058 DTG 052042Z NOV 76.

1. THERE FOLLOWS IN PARA 4 BELOW, TEXT OF REPORT BY THE CHAIRMAN OF THE TRI-SERVICE GROUP (TSG) ON ELECTRICAL POWER, AC/294. ATTENTION IS DRAWN TO PARAGRAPH 13 OF THE REPORT WHICH REQUESTS APPROVAL OF THE FUTURE PROGRAM OF WORK BY NATIONAL ARMAMENTS DIRECTORS (NAD'S). THE TSG SECRETARY PROPOSES THIS BE ACCOMPLISHED THROUGH THE NADREPS.

2. WASHINGTON WILL RECALL PREVIOUS NADREP DISCUSSIONS ON THE POSSIBLE TRANSFER OF FUNCTIONS FROM THE TSG TO THE ARMY BOARD OF THE MILITARY AGENCY FOR STANDARDIZA-
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TION (MAS) (REF A) AND THE COMPLICATIONS STEMMING FROM:

(A) THE TSG'S TERMS OF REFERENCE, WHICH INCLUDE A VARIETY OF TASKS, SOME APPROPRIATE TO CNAD AND SOME TO THE MAS; (B) THE DESIRE THAT TRANSFER OF FUNCTIONS TO MAS, IF EFFECTED, BE COUPLED WITH ELIMINATION OF

AC/294(REF B); (C) ACKNOWLEDGEMENT BY THE CHAIRMAN OF THE MAS ARMY BOARD THAT IT HAS NO WORKING GROUP PRESENTLY COVERING THIS FIELD; (D) THE ONGOING STUDY BY THE WORKING GROUP ON THE DEMARCATION OF RESPONSIBILITIES BETWEEN MAS/IMS AND CNAD; AND (E) ONGOING EFFORTS BY NADREPS TO REVISE DRAFT TERMS OF REFERENCE FOR A GROUP OF NATIONAL MATERIAL DIRECTORS ON MATERIEL STANDARDIZATION (REFS C AND D).

3. IN VIEW OF THE FACTORS NOTED ABOVE, AND THE GENERAL CONSENSUS OF NAD'S DURING THEIR OCTOBER CONFERENCE (CLOSED SESSION) THAT THE IS REPORT AT THE NEXT CONFERENCE ON THE ACCOMPLISHMENTS AND SHORTCOMINGS OF ALL CADRE GROUPS, WE BELIEVE A DECISION ON THE FUTURE OF AC/294 AT THIS TIME WOULD BE PREMATURE. WE ALSO NOTE THE TSG'S AGREEMENT CONCERNING THE DESIRABILITY OF COOPERATIVE R&D, AND TO EXCHANGE INFORMATION LISTS OF FUTURE DEVELOPMENT AND PROCUREMENT PLANS -- ACTIVITIES WHICH ARE APPROPRIATE TO THE CNAD. RECOMMEND WE BE AUTHORIZED TO APPROVE THE FUTURE PROGRAM OF WORK PROPOSED BY THE TSG. ACTION REQUESTED: WASHINGTON GUIDANCE BY 26 NOVEMBER.

4. BEGIN TEXT.

REPORT BY THE CHAIRMAN OF THE TRI-SERVICE GROUP OF EXPERTS ON ELECTRICAL POWER

I. GENERAL

1. THE SECOND MEETING OF THE AC/294 GROUP WAS HELD AT NATO HEADQUARTERS, BRUSSELS, FROM 20TH-22ND SEPTEMBER, 1976. REPRESENTATIVES FROM BELGIUM, CANADA, DENMARK, FRANCE, GERMANY, ITALY, THE NETHERLANDS, NORWAY, THE UNITED KINGDOM, THE UNITED STATES AND NICSMA ATTENDED. IN ADDITION, THE CHAIRMAN OF AC/141-IEG/6(SG/4) WAS PRESENT. THE GROUP REGRETTED THAT THE AIR BOARD DID NOT SEND A REPRESENTATIVE TO THE MEETING TO TAKE PART IN THE DELIBERATIONS, BUT UNDERSTOOD UNCLASSIFIED

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THAT THIS HAD ARISEN DUE TO A CHANGE OF PERSONNEL IN MAS.

II. ELECTION OF CHAIRMAN

2. THE UNDERSIGNED WAS ELECTED TO SERVE AS CHAIRMAN FOR THE THIRD MEETING AND AT THE CONCLUSION OF THE MEETING HE WAS UNANIMOUSLY REQUESTED TO CONTINUE IN THIS POSITION FOR SUBSEQUENT MEETINGS.

III. TERMS OF REFERENCE OF AC/294

3. THE GROUP NOTED THE NADREPS' APPROVAL ON BEHALF OF THEIR NADS OF THE NEW TERMS OF REFERENCE, AS CONTAINED IN ANNEC I TO AC/259-D/459.

IV. DRAFT STANAGS 4133, 4134 AND 4135

4. THE GROUP AGAIN DISCUSSED THE EXCLUSION FROM THESE STANAGS OF GENERATORS OR GENERATING SETS ON BOARD VEHICLES, SHIPS, OR AIRCRAFT AND AIRCRAFT GROUND SERVICING EQUIPMENT.

THIS HAS THE RESULT THAT IN THE PRESENT EDITION THE ABOVE-MENTIONED STANAGS ARE CHIEFLY ARMY STANAGS. THE GROUP DEEPLY REGRETTED THIS SITUATION IN VIEW OF ITS TERMS OF REFERENCE AS A TRI-SERVICE GROUP, BUT NOTED THAT THIS HAD TO BE ACCEPTED IF RATIFICATION BY SOME NATIONS WAS TO BE SECURED.

5. IN THE LIGHT OF THE ABOVE DISCUSSION AND WITH A FEW MINOR CHANGES AND EDITORIAL CORRECTIONS, THE GROUP UNANIMOUSLY APPROVED THE ABOVE-MENTIONED STANAGS AS DRAFTED, AND REQUESTED THE SECRETARY TO ARRANGE FOR PROMULGATION WITH DUE REGARD TO THE RESERVES EXPRESSED BY CERTAIN NATIONS.

V. DATE, PLACE AND AGENDA FOR EXT MEETING

6. THE GROUP UNANIMOUSLY AGREED THAT ARRANGEMENTS SHOULD BE MADE FOR A JOINT MEETING WITH AC/294, AC/141-IEG/6 AND AIR ELECTRICAL WORKING PARTY, TO BE HELD AT NATO HEAD-QUARTERS, BRUSSELS ON 6TH DECEMBER, 1977 TO BE FOLLOWED BY THE NORMAL MEETING OF THE GROUP FROM 7TH-9TH DECEMBER, 1977.

7. THE PROPOSED ONE-DAY JOINT MEETING SHOULD CONSIST OF A SYMPOSIUM IN ORDER TO EXPLAIN AND INVESTIGATE THE INTENTIONS OF STANAGS 4134 AND 4135. THE AIM IS TO OBTAIN A MUTUAL UNDERSTANDING OF THE NECESSITY OF TRI-SERVICE VERSIONS OF THESE STANAGS AS APPLICABLE TO LONG-TERM FUTURE PLANNING AND DESIGN.

VI. FUTURE PROGRAMME

8. THE SUBJECTS LISTED BELOW WILL BE DISCUSSED AT THE THIRD MEETING AND DISCUSSION PAPERS WILL BE PREPARED AND CIRCULATED WITHIN SIX MONTHS. THE SUBJECTS AND AUTHOR COUNTRIES ARE:

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(1) REVIEW ON WORKING PAPER - PROTECTION OF PERSONNEL FROM ELECTRIC SHOCK (GERMANY).

(2) THE INFLUENCE OF THE LOAD ON THE HARMONIC CONTENT OF THE VOLTAGE OUTPUT OF OF POWER SOURCES (DENMARK, GERMANY AND THE NETHERLANDS).

(3) ELECTRICAL POWER DISTRIBUTION IN THE FIELD (UNITED KINGDOM).

(4) ACOUSTIC AND INFRA-RED SIGNATURES OF ELECTRIC POWER SOURCES (UNITED STATES).

9. THE GROUP AGREED TO THE NEED OF A STANAG ON POWER CONDITIONERS AND ACCEPTED THE OFFER FROM UNITED KINGDOM TO PREPARE A DRAFT STANAG ON AC/DC CONVERTERS AND DC/AC INVERTERS TO BE CIRCULATED AT LEAST THREE MONTHS BEFORE THE NEXT MEETING.

10. THE GROUP WILL CONTINUE TO MONITOR STANAGS 4133, 4134 AND 4135. DENMARK AGREED TO PREPARE A DISCUSSION PAPER ON THE DEFINITION OF VOLTAGE AND FREQUENCY MODULATION TO BE DISCUSSED AS AN ADDENDUM TO STANAG 4135. DENMARK AGREED THE PAPER TO BE CIRCULATED WITHIN SIX MONTHS.

11. IT WAS AGREED AS BEING OF MUTUAL BENEFIT, IF IT WERE POSSIBLE, TO CARRY OUT CO-OPERATIVE RESEARCH AND DEVELOPMENT WHICH IN TURN COULD LEAD TO SOME FORM OF COMMON PROCUREMENT. AS A STEP TOWARDS THIS, IT WAS AGREED THAT INFORMATION LISTS OF FUTURE DEVELOPMENT AND PROCUREMENT PLANS SHOULD BE EXCHANGED

AND CIRCULATED BEFORE THE NEXT MEETING.
AT THIS MEETING, LISTS OF REQUIREMENTS AND COPIES OF
SPECIFICATIONS WERE DISTRIBUTED.

12. THE GROUP AGREED TO STUDY THE CIRCULATED DEFINITIONS
OF "NO-BREAK" AND "SHORT-BREAK" POWER SYSTEMS AS DEFINED IN
STANAG 1008 AND AN ABCA PROPOSAL. THE INTENTION IS TO AGREE ON
A DEFINITION AT THE NEXT MEETING.

VII. CONCLUSIONS

13. THE GROUP REQUESTS THE APPROVAL BY THE NATIONAL
ARMAMENTS DIRECTORS OF THE FUTURE PROGRAMME AS OUTLINED ABOVE
AND WOULD PARTICULARLY APPRECIATE THEIR ENDORSEMENT OF THE
ENDEAVOUR TO BRING THE THREE SERVICES NEARER TOGETHER IN THE
LONG-TERM APPLICATION OF AGREEMENTS WHICH WILL REDUCE THE
NUMBER OF DIFFERENT ALTERNATING CURRENT SUPPLY REQUIREMENTS.
END TEXT.STRAUSZ-HUPE

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